



PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	To
PO039927	ACI001-VC	12	1	Net 30	M4130NS.080	AISI 4130 Steel Sheet : MATERIAL: AISI 4130N STEEL SHEET AS PER OR AS PER AMS 6345 MIL-S-18729 OR AMS 6350 OR AMS 6351				18	5/29/2018	18		S075399	Stock	5/29/2018	\$ 22.01 / sf	0	\$30:	
							Total:			18		18								

Plex 5/29/2018 1:01 PM Dart.Dubois.Pascal



PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit
PO039927	ACI001-VC	1	1	Net 30	M1018R0.187	M1018R0.187 : MATERIAL: AISI 1018-1025 ROUND BAR M1018S20GA AS PER MIL-S-7097 OR ASTM A108 receive ft				12	5/25/2018	12		S074039	Stock	5/24/2018	\$ 0.13 / ft
		2			M304R.313	304 SS Round bar .313 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft						12		S074040	Stock	5/24/2018	\$ 0.91 / ft
		3			M304R.500	304 SS roundbar .500 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft				144		144		S074041	Stock	5/24/2018	\$ 2.33 / ft
		5			MT-4140-R1.625	AISI 4140 Round Bar MATERIAL: AISI 4140 ROUND BAR MINIMUM ROCKWELL C = 20 Rc MAXIMUM ROCKWELL C = 38 Rc SPECIFICATION: ASTM A29, AMS 6349, AMS 6382, AMS 6529				20		20		S074042	Stock	5/24/2018	\$ 10.29 / ft
		9			MT-1144-R0.500	1144 Steel Proof Round Bar 0.500"						24		S074043	Stock	5/24/2018	\$ 1.18 / ft
		11			M6061T6B0.375X1.000	6061T6 Bar .375 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft					40		40		S074044	Stock	5/24/2018
										Total:	248		252				

Plex 5/24/2018 11:35 AM Dart.Dubois.Pascal



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

## PURCHASE ORDER PO039927

**Supplier:** ACI001-VC  
Acier Ouellette Inc.  
935 Boul. Du Havre  
Valleyfield  
QC  
J6S 5L1 Canada  
Phone: 800 667 4248  
Fax: 450 377 5696

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**PO No:** PO039927  
**PO Date:** 5/17/18  
**Due Date:** 5/22/18  
**Purchase Order Revision:**  
**Revision Date:**  
**Ship-To Contact:** Lavoie, Chantal Phone:  
clavoie@dartaero.com  
  
**Via:** Ground  
**Pymt Terms:** Net 30  
**Freight Terms:**  
**Special Comments:**

E-MAILED  
MAY 16 2018

### Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M1018R0.187		M1018R0.187 : MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108 receive ft	Firmed	5/22/18	12 ft	0 ft	12 ft	\$0.125833/ft	\$1.51
2	M304R.313		304 SS Round bar .313 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	5/22/18	12 ft	0 ft	12 ft	\$0.91/ft	\$10.92
3	M304R.500		304 SS roundbar .500 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	5/22/18	144 ft	0 ft	144 ft	\$2.3345/ft	\$336.17
<b>Line Item Note</b> 12 length of 12 ft										
4	M303R0.750		303 Round Bar 0.750 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	5/31/18	12 ft	0 ft	12 ft	\$21.75/ft	\$261.00
5	MT-4140-B-1.000X1.000		4140 Steel Bar 1.000 X 1.000 : AISI 4140N STEEL BAR PER MIL-S-5626, AMS 6382, AMS 6349, AMS 6529 receive ft	Firmed	5/31/18	24 ft	0 ft	24 ft	\$20.41666/ft	\$490.00

## Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
6	MT-4140-R1.625		AISI 4140 Round Bar MATERIAL: AISI 4140 ROUND BAR MINIMUM ROCKWELL C = 20 Rc MAXIMUM ROCKWELL C = 38 Rc SPECIFICATION: ASTM A29, AMS 6349, AMS 6382, AMS 6529	Firmed	5/22/18	20 ft	0 ft <i>20</i>	20 ft	\$10.291/ft	\$205.82
7	MT-4140-R4.000	CUT TO 7" LENGTH	AISI 4140 Round Bar MATERIAL: AISI 4140 ROUND BAR MINIMUM ROCKWELL C = 20 Rc MAXIMUM ROCKWELL C = 38 Rc SPECIFICATION: ASTM A29, AMS 6349, AMS 6382, AMS 6529	Firmed	5/25/18	12 ft	0 ft	12 ft	\$90.69666/ft	\$1,088.36
<b>Line Item Note</b> 2 pcs of 6 ft										
8	MT-4140-S-2.750X5.000		4140 Steel Sheet 2.750 X 5.000 : MAT'L: AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395 receive ft	Firmed	5/22/18	12 ft	0 ft	12 ft	\$133.16666/ft	\$1,598.00
<b>Line Item Note</b> 2 pcs of 6 ft										
9	MT-4140-S-1.250X2.000		AISI 4140 Steel Bar : MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395	Firmed	5/22/18	6 ft	0 ft	6 ft	\$35.8333/ft	\$215.00
10	MT-1144-R0.500		1144 Steel Proof Round Bar 0.500"	Firmed	5/22/18	20 ft	0 ft <i>24</i>	20 ft	\$1.1755/ft <i>MAY 24 2018</i>	\$23.51
11	M303B1.000X2.000		303 Bar 1" X 2" : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE	Firmed	5/25/18	12 ft	0 ft	12 ft	\$38.91666/ft	\$467.00

5/17/2018

## PURCHASE ORDER

## Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
12	M6061T6B0.375X1.000		6061T6 Bar .375 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	5/18/18	40 ft	0 ft <i>40</i>	40 ft	\$1.575/ft	\$63.00
13	M4130NS.080		AISI 4130 Steel Sheet : MATERIAL: AISI 4130N STEEL SHEET AS PER OR AS PER AMS 6345 MIL-S-18729 OR AMS 6350 OR AMS 6351	Firmed	5/22/18	18 sf <i>18 1/2</i>	0 sf	18 sf	\$22.005555/sf	\$396.10
<b>Line Item Note</b> 1 PCS 3 FT X 6 FT										DAS 11 9-89
14	MT-4140-S-2.250X3.000		AISI 4140 Steel Sheet 2.250" x 3.000" : MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395	Firmed	5/22/18	12 ft	0 ft	12 ft	\$74.3333/ft	\$892.00
<b>Line Item Note</b> 2 pcs of 6 ft										
15	MT-4140-S-0.375X4.500		AISI 4140 Steel Sheet/Plate MAT'L: AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395	Firmed	5/30/18	12 ft	0 ft	12 ft	\$29.50/ft	\$354.00
<b>Line Item Note</b> 2 pcs of 6 ft										<b>Grand Total:</b> \$6,402.39

## Order Notes

## Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 part notification by supplier
- A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dart aerospace.com](http://www.dart aerospace.com) for further explanation.

*CL*

Plex 5/17/18 11:41 AM dart.lavoie.chantal

# DELIVERY - CLIENT

CO00090245



## ACIER OUELLETTE INC.

935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

### Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

### Shipped to

, Ontario,  
*3 paquets*

### Salesman

OUELLETTE VALLEYFIELD

### CARRIER

Net 30 Days

### Credit Termes

### Internal Use Only

### Your order N°

*POO3901*

### Date

2018/05/17

### Delivery date

*2018/05/24*

### Customer N°

CLI0001056

Instruction	F-M	Delivery Route	5	Page	PCS NB						Internal Use Only	
					CMD	EXP	B/O	IN	I	S	C	OUT
1	FLAT ALU 3/8 X 1 6061-T6 *				18.00	40.00	PI-\$CLB	20	40	1	DAS 11	9-8 MAY 24 2018
	FAL-381	<i>2613</i>										
	2 X 20'											
	<i>LINE#11</i> <i>Heat : 3B6294</i>											
2	ROUND CR 3/16 1018 (R)				1.13	12.00	PI-\$CLB	12	12	1	DAS 11	9-8 MAY 24 2018
	RCR-316	<i>5327</i>										
	1 X 12' R/L											
	<i>LINE#1</i> <i>Heat : A333093-5.5</i>											

# DELIVERY - CLIENT

CO00090245



**ACTER OUELLETTE INC.**

935, Boul. du Havre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

**Shipped to**

DART AEROSPACE LTD

1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

**Billed to**

DART AEROSPACE LTD

1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

**Your order №**

Eric Kaehlert

**Processed by**

OUELLETTE VALLEYFIELD

**Salesman**

Net 30 Days

**Carrier**

Credit Termes

**Date**

2018/05/24

**Delivery date**

2018/05/24

**Delivery Route**

F-M

Page

2

Instruction	F-M	Delivery Route	5	Page	Internal Use Only										
					Weight	Qty	U/M	CMD	EXP	B/O	IN	I	S	C	OUT
3	ROUND SS 5/16 304 (R) RSS-516	5773	3.12	12.00	PL\$CLB		1X 12'1"				12	1			DAS 11 289
4	ROUND SS 1/2 304 (R) RSS-12	5730	96.05	144.00	PL\$CLB		8X 13'2" 2X 13'3" 2X 13'1"				MAN 2	1			DAS 11 289

NIR : R-109516-6



DELIVERY - CLIENT

C00090245

ACIER OUELLETTE INC.

Customer N° CLI0001056

2018/05/17

Schubert & Vancleave (Success) 305-311  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

**Delivery date**  
**2018/05/24**

Your order N°

**Billed to**

DART AEROSPACE LTD

1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5 Page

Credit Terme

QUELLETTE VALLEYFIELD  
Net 30 Days

NIR : R-109516-6

[Next Page...](#)

# DELIVERY - CLIENT

C000090245



## **ACIER OUELLETTE INC.**

Customer N° CLI0001056  
 935, Boul. du Havre  
 Salaberry de Valleyfield (Québec) J6S 5L1  
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

**Your order N°**  
**Processed by**  
**Date**  
**Delivery date**  
**2018/05/24**

**Billed to**

DART AEROSPACE LTD  
 1270, ABERDEEN ST.  
 HAWKESBURY, Ontario, K6A 1K7

**Shipped to**

, Ontario,

**Salesman**  
**Carrier**  
**Credit Termes**  
 OUELLETTE VALLEYFIELD  
 Net 30 Days

**Instruction**  
 F-M

**Delivery Route**  
 5

**Page**  
 4

**Product Description**

**Weight**  
 13.36

**Qty**  
 20.00

**U/M**  
 PL\$CLB

**PCS NB**

**CMD**  
 24

**EXP**  
 12

**B/O**  
 12

**IN**  
 24

**I**  
 1

**S**  
 24

**C**  
 0

**OUT**

**Internal Use Only**

**MA/24/2018**

**DAS**  
 11  
 \$0.00

**Total Weight (Lbs):** 305.69      **NIR :** R-109516-6

**Conditions:**

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full; complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By : \_\_\_\_\_

Verified By : \_\_\_\_\_

Delivered By : \_\_\_\_\_

Time \_\_\_\_\_

**Total (\$CAD)**

Customer's Signature

Date

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4130NS,080  
 DATE: MAY 24 2018

PO / BATCH NO.: 039927/5075399

MATERIAL CERT REC'D: YES  
 QUANTITY RECEIVED: 18 pi<sup>2</sup>  
 QUANTITY INSPECTED: 18 pi<sup>2</sup>  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .080  
 THICKNESS RECEIVED: .080  
 SHEET SIZE ORDERED: 3x6  
 SHEET SIZE RECEIVED: 3x6

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Am 56350</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Heat # NCpu 4037</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u>	SIGNED OFF BY: _____
DATE: <u>11 MAY 24 2018</u> <u>9-89</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



**DART**

DESIGN <b>BRADLEY</b>	DRAWN BY <b>BRADLEY</b>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
CHECKED <b>✓</b>	APPROVED <b>✓</b>	DRAWING NO. <b>M4130N-S</b>	REV. <b>A</b>	SHEET <b>1</b> OF <b>1</b>
DATE <b>01.05.17</b>	TITLE <b>4130 SHEET SPEC.</b>		SCALE <b>NA</b>	

PURCHASE - AISI 4130 N STEEL SHEET  
PER ONE THE FOLLOWING  
SPEC'S : MIL-S-18729, AMS6350  
OR AMS 6351

RELEASED  
01-05-18

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Descrp: .080" CF ALLOY 4130 AQ ANN 36" X 72"  
MEMO: AMS-6350 HT# NLPU4037

To: ACIER OUELLETTE

BM#: 170334

PCS: 2

LBS:

15451 N



METALLURGICAL TESTING LABORATORY  
15 ROEMER BLVD.  
FARRELL, PA 16121  
CONTACT: DALE SIDDONS  
TELEPHONE: (724) 983-6464 X1298  
FAX: (724) 982-4423

**CERTIFIED MILL TEST REPORT**

Customer:		ORDER #	405904-01	CUST. PO#	918238
Address:	123 NORTH 8 <sup>TH</sup> STREET	SIZE	.080 X 36.000		
	KENILWORTH, NJ 07033	WT. SHIPPED	34980		
Phone:	908-497-1480	HEAT #	NLPU4037		
Fax:	908-497-1480	GRADE/TYPE	4130AO (Spherodized Annealed) CR		
Representative:	ED HALPN	Testing Required:	AMS6350N/6351K, ASTM505/506/EN 10204 3.1 AMS2252D/2301K / (MILS-s-18729)		

As Processed Results				ASTM TEST METHOD							
Coil #	Heat #	Gauge	Area	Yield PSI	Ultimate PSI	Elong 2%	E18	E290	E45	E112	E1077
7960582	NLPU4037	.080	.0400	50710	73950	27	80	PASS	0	8	0

Heat Treated Results*			
ASTM TEST METHOD			
Coil #	Heat #	Gauge	Hardness HRC
7960582	NLPU4037	.080	37

\*Denotes outsourced to independent laboratory (A2LA Accredited)

Hardness Test Per ASTM E-18	
	Average
Surface (HRA)	78.1
Core (HRA)	78.5

Requirement: The difference in hardness between the surface and core shall not be greater than 2.0

CONFORMANCE: The sample submitted has passed all testing requirements.

By:

Metallurgical Laboratory Supervisor

Date:

6-8-17

Certification  
Date: 6/9/17  
Approved By:   
Certification Specialist  
Benedict-Miller, LLC

The information in this report is derived exclusively from material tested and the information and/or specifications furnished to NLMK Pennsylvania by the customer and excludes any expressed or implied warranties as to the fitness of the material tested or analyzed for any particular use.  
This report is the confidential property of NLMK Pennsylvania's customer and shall not be reproduced except in full, without written approval of NLMK Pennsylvania.

descr: .080" CF ALLOY 4130 AQ ANN 36" X 72"  
MEMO: AMS-6350 HT# NLPU4037

To: ACIER OUELLETTE

BM#: 170334

PCS: 2

LBS:



METALLURGICAL TESTING LABORATORY  
15 ROEMER BLVD.  
FARRELL, PA 16121  
CONTACT: DALE SIDDONS  
TELEPHONE: (724) 983-6464 X1298  
FAX: (724) 982-4423

CERTIFIED  
TEST REPORT

	ORDER #	405904-01	CUST. PO#	918238
Address:	SIZE	.080 X 36.000		
123 NORTH 8 <sup>TH</sup> STREET	WT SHIPPED	34980		
KENILWORTH, NJ 07033	HEAT #	NLPU4037		
	GRADE	4130AQ		
Phone: 908-497-1477				
Fax: 908-497-1480				
Representative: ED HALPIN				

Heat Analysis # NLPU4037

ASTM TEST METHOD: E415  or E1019  (C & S only when checked)

(Results are in weight %)

C	Mn	P	S	Al	Si	Cu	Ni	Cr	Mo
.30	.45	.01	.002	.036	.2	.15	.06	.84	.15
Sn	Ca	B	Nb	Co	V	Zr	Ce	N	Ti

NOTE: MELT AND MFG IN THE USA

- The material supplied is mercury and weld free
- Frequency/severity rating = passed based on Frequency/severity per spec AMS 2301K (F); 0 / (S); 0

Date: 6/9/17 *Certification*

Approved By: *M.Jas*

Certification Specialist  
Benedict-Miller, LLC

By:

A handwritten signature in black ink, appearing to read "Dale F. Gibbons".

Date: 6-8-17

Metallurgical Laboratory Supervisor

The information in this report is derived exclusively from material tested and the information and/or specifications furnished to NLMK Pennsylvania by the customer and excludes any expressed or implied warranties as to the fitness of the material tested or analyzed for any particular use. This report is the confidential property of NLMK Pennsylvania's customer and shall not be reproduced except in full, without written approval of NLMK Pennsylvania.

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MF-1144-R0.500  
 DATE: MAY 24 2018

PO / BATCH NO.: 039927/5074043

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 241  
 QUANTITY INSPECTED: 241  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500  
 THICKNESS RECEIVED: 0.500  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N <input type="radio"/>	Astan A311
CORRECT THICKNESS	Y <input checked="" type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N <input type="radio"/>	Heat # 20504590
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-89 MAY 24 2018</u>	SIGNED OFF BY: _____
	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 1144 STRESSPROOF STEEL ROUND BAR  
 SPECIFICATION: ASTM A311 or UNS G11440  
 PART NUMBER: MT-1144-R [D,DDD]  
 WHERE "D,DDD" = DIAMETER IN INCHES  
 E.G. 5/8" ROUND BAR = MT-1144-R.625

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.08.09	VM	WM 24.7.09.12

C      D      B      A

C      D      B      A

C      D      B      A

C      D      B      A

**DART** Aerospace, Inc., Canada

**Title:** AISI 1144 STRESSPROOF STEEL  
ROUND BAR

**DYO NO:** MT-1144-R      **REV:** A

**DESIGN BY:** VM 09/05/2017      **REV:** A  
VM 09/05/2017      FRACTIONS: 1/16  
VM 09/05/2017      ANGLES: 1/16  
VM 09/05/2017      2X, 1/16, 1/16  
VM 09/05/2017      UNLESS OTHERWISE SPECIFIED  
SAC 08/31/2017      1. INTERPRETATION OF DRAWINGS  
SAC 08/31/2017      2. INTERPRETATION OF TOLERANCES  
SAC 08/31/2017      3. UNLESS OTHERWISE SPECIFIED  
DE 08/31/2017      1. INTERPRETATION OF DRAWINGS  
DE 08/31/2017      2. INTERPRETATION OF TOLERANCES  
DA APPRO: PD 08/31/2017  
APPROVED: VM 09/05/2017  
DATE: 09/05/2017      SCALE: 1/16  
SCALE: 1/16      WEIGHT: 0.01 LBS

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RST-12

48872  
#9678

**NIAGARA  
LASALLE  
CORPORATION**

1412 150th Street  
Hammond IN 46327-1799

**CERTIFICATION**

CERTIFICATE	Rev
H180769	2
DATE	08/11/17
PAGE	2

<p>S H I P T O</p>	<p>PURCHASE ORDER <b>B99740</b>  <b>ORDER 943870-1</b></p> <p>CUSTOMER ITEM <b>V715371</b> ITEM <b>110500132SP4</b>  <b>GRADE STRESSPROOF(R)</b> SHAPE <b>Round</b>  <b>SIZE .5600</b> SIZE MM <b>12.7000 MM</b>  <b>LENGTH 11' 0"/12' 6"</b> LENGTH MM <b>3352.8 / 3810</b></p>																						
<p>STRESSPROOF(R) Spec/Rev: Spec/Rev: ASTM A108-13 Spec/Rev: ASTM A29/A29M-15 Spec/Rev: ASTM A311-04(2010) CLASS B</p>																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>HEAT</th> <th>GRAIN PRACTICE</th> <th>SOURCE / MELTED</th> <th>CAST</th> <th>REDUCTION RATIO</th> <th>DI</th> </tr> </thead> <tbody> <tr> <td><b>20504590</b></td> <td><b>COARSE</b></td> <td><b>CHARTER STEEL - OHIO (USA)</b></td> <td><b>STRAND</b></td> <td><b>249.5:1</b></td> <td><b>1.99</b></td> </tr> </tbody> </table>		HEAT	GRAIN PRACTICE	SOURCE / MELTED	CAST	REDUCTION RATIO	DI	<b>20504590</b>	<b>COARSE</b>	<b>CHARTER STEEL - OHIO (USA)</b>	<b>STRAND</b>	<b>249.5:1</b>	<b>1.99</b>										
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<p>WE, hereby certify that these goods were produced in compliance with all applicable requirements of sections 6, 7, and 12 of the Fair Labor Standards Act, as amended, and all regulations and orders of the United States Department of Labor issued under section 14 thereof. Material was not exposed to mercury or any metal alloy that is liquid at ambient temperature during processing or while in our possession. No weld repairs performed on the above material.</p>																							
<p><b>CERTIFICATE OF TEST</b></p> <p>By: <i>Walter P. Kretzler</i></p> <p>Walter P. Kretzler - Director of Q.A./Chief Metallurgist</p>																							

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-9140-R1.625  
 DATE: MAY 24 2019

PO / BATCH NO.: 039927/5074042

MATERIAL CERT REC'D: YOS  
 QUANTITY RECEIVED: 20  
 QUANTITY INSPECTED: 20  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.625  
 THICKNESS RECEIVED: 1.625  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>A5tm A-09</i>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>Heat#166873</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-09 MAY 24 2018</u>	SIGNED OFF BY: _____
	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 ROUND BAR  
MINIMUM ROCKWELL C = 20 Rc  
MAXIMUM ROCKWELL C = 38 Rc

ASTM A29, AMS 6349, AMS 6382, AMS 6529

SPECIFICATION:

MT-4140-R-[D,DDD]  
WHERE "D,DDD" = DIAMETER IN INCHES  
EX. 4" ROUND BAR = MT-4140-R-4,000

PART NUMBER:

DART		Aerospace	Head Office, Ontario, Canada
AISI 4140 ROUND BAR			
PART NO.		REV	A
MT-4140-R			
TOOL NO.			
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE IN HUNDREDTHS OF AN INCH. COUNTERBOIDS APPLY AFTER FINISHING.			
DESIGNED BY:	INITIALS AND DATE:	TOLERANCES:	
DRAWN BY:	VN 17/7/2017	XXX	± .005
CHECKED BY:	VN 12/1/2017	XX	± 1/8
MFG REVIEW BY:	ML 12/1/2017	X	± .015
APPROVED BY:	DF 12/2/2017	X	± .5°
APPROVED BY: ML 17/7/2017		SCALE/LENTS:	SHEET 1 OF 1
THE DOCUMENT IS PROPRIETARY INFORMATION OF DART AEROSPACE LTD. IT MAY NOT BE COPIED OR DISCLOSED TO ANYONE EXCEPT APPROVED CONTRACT PARTIES.			

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REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	17-780	17/12/13	VM	ML



## CERTIFIED MILL TEST REPORT

Alton Steel Test Lab  
#5 C-C Street  
Alton, IL 62022-5011  
(618) 463-4493 ext. 2486  
(618) 463-4493 (Fax)

BILL TO		SHIP TO																		
Sapco Steel Corporation 10211 Capital Avenue Oak Park, IL 60227		Eaton Steel Corporation 10211 Capital Avenue Oak Park, IL 60227																		
Date	1/17/2015	Customer PO	158074																	
ASTM Ord No.	83088	Customer PT.	9701																	
ASTM Ord Line Item																				
Item Description	S3088, Hot Rolled, 1.5350, 16 G "																			
Part Number																				
CHEMICAL ANALYSIS TEST METHODS ASTM E-415 & E-1059																				
JOHNNY HARDENABILITY USING ASTM A-355 CALCULATED FROM CHEMICAL DI																				
Heat Number	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	0.856	0.158	0.010	0.003	0.013	V	6	7	N	Cr	
156873	0.41	0.89	0.028	0.024	0.26	0.20	0.081										0.003	0.020	0.0102	0.0056
Heat Number	CS	DI																		
156873	7	4.86																		
SPECIAL TEST RESULTS																				
ASTM E-45 Method A:		ASTM E-44 Method C:		SCE-142		ASTM E-44		ASTM E-44		Charpy		Hardness								
Heat Number	TA	TB	TC	TD	HA	HB	HC	HD	S	O	S	R	C	RC	RB	BET				
156873														1	1	1				
ADDITIONAL COMMENTS																				

No mercury, lead, cadmium, or asbestos containing material or  
substances were used or deliberately added in the production of this  
steel. No tensile and/or impact tests were performed on this material.  
This steel is 2004q Electric Arc Furnace Reheat and Rolled in the  
U.S.A. Material qualifies as NAFRA designation.

Subscribed and sworn to before me, a Notary Public, in and for  
the County of Madison, State of Illinois  
this \_\_\_\_\_ Day of \_\_\_\_\_  
My commission expires \_\_\_\_\_  
(Notary Public)

Attention or reproduction of this report, except in full, is not  
allowed without written approval by a representative of  
Alton Steel Incorporated.

I hereby certify that the above tests are correct as contained  
in the records of ALTON STEEL INCORPORATED

Quality Leader: Josh Len



Super Steel Treating  
6227 Rintle Ave  
Warren MI 40091  
(586) 755-9140  
ISO 9001:2008 Registered

## Quality Report

Customer : EATON STEEL CORP

Date	Q.C ID No.
12/14/16	WOBR146765

## Metallurgical Certification

Customer : EATON STEEL CORP P#2  
Grade : 4140  
Size : 1.6250  
Heat No : 166873  
Receiver : BR146765  
Cust PO : 159621  
Mill Notes :  
Our Part : EAT05622  
Cust Part : 7317

Furnace Process : 1  
Date Processed : 12/14/16  
Accepted Weight : 23480  
Accepted Qty : 3  
Mill: EATON  
Release No :  
Process TY : LPA

600 ± 809612

## Representative Sampling

Sample	Coil ID#	Decarb	FF	Mid Radius		Surface		Microstructure	
				HRB	HRC	HRB	HRC	HB	HB
159226		0.05				205			100% FERROLITE

Coil/Bundle ID: R166873001 R166873002 R166873003

cert 4/1/029

Eaton Steel Bar Company Inspection Certificate 1640568

EN 10204:2004-3,1

Eaton Steel Bar Company Inspection Certificate 16400366						
Customer	BOL	Ship Date	Customer PO	Item	Customer Item	Item Description
	210760	08-May-2017	B99087	7317 rev 002	001-0021-12	1-518 HR RD 4140ME 18/2011 SBO LPA FG MST
All bundles listed below were produced using steel from Heat 166873 issued by ALTON STEEL and were completed from Eaton Steel Job 898612.						
Chemistry	Description	Value	Units	Heat Treating	Description	Value
C	Carbon	0.41000	PPMGT	AUSTENITE TEMP F	Austenite Temp in Fahrenheit	1600 - 1700
Mn	Manganese	0.89000	PPMGT	MAGNETISM - HT	Magnetism in Gauss	0 - 20
P	Phosphorus	0.00000	PPMGT	MET - HT	Machine Straighten	Satisfactory
S	Sulfur	0.02400	PPMGT	TIME AT TEMP	Time at Temperature	Report
Si	Silicon	0.26000	PPMGT	Mill Processing	Description	Value
Ni	Nickel	0.08100	PPMGT	MELT COUNTRY	Melted in Country	USA
Cr	Chromium	0.85620	PPMGT	ROLLED COUNTRY	Rolled in Country	USA
Mo	Molybdenum	0.15800	PPMGT	RED RATIO	Reduction Ratio	23 - 63
Al	Aluminum	0.00100	PPMGT	ASTM Standard	Description	Value
Cu	Copper	0.20000	PPMGT	A322-91	Steel Bars, Alloy, Standard Grades	CONFORMS
V	Vanadium	0.02300	PPMGT	Structure	Description	Value
Cb	Colombium	0.00300	PPMGT	PERCENT LP	Percent Lamellar Pearlite	70 - 100
Ca	Calcium	0.00560	PPMGT	MICROSTRUCTURE	Reported Microstructure	L.P.
N	Nitrogen	0.01020	PPMGT	Tag Number	Qty	Length
				IN	2275 LBS	18ft
				IN	022-1993377	
				IN	4,86000	

卷之三

Characteristic	Description	Value	Units
Cleanliness	Report macro etch results.	*	
MACRO ETCH	Report macro etch results.		
Geometry	Description	Value	Units
DIA/METER	Diameter	1.6994 - 1.6406	IN
Jominy	Description	Value	Units
J1	1/16 inch from Quenched End	56	HRC
J2	2/16 inch from Quenched End	56	HRC
J3	3/16 inch from Quenched End	56	HRC
J4	4/16 inch from Quenched End	56	HRC
J5	5/16 inch from Quenched End	56	HRC
J6	6/16 inch from Quenched End	55	HRC
J7	7/16 inch from Quenched End	53	HRC
J8	8/16 inch from Quenched End	52	HRC
J9	9/16 inch from Quenched End	51	HRC
J10	10/16 inch from Quenched End	50	HRC
J12	12/16 inch from Quenched End	47	HRC
J14	14/16 inch from Quenched End	45	HRC
J16	16/16 inch from Quenched End	42	HRC
J18	18/16 inch from Quenched End	41	HRC
J20	20/16 inch from Quenched End	41	HRC
J22	22/16 inch from Quenched End	39	HRC
J24	24/16 inch from Quenched End	36	HRC
J28	28/16 inch from Quenched End	34	HRC
J32	32/16 inch from Quenched End	Value	Units
Mechanical	Description	205.0	BHN
BRINELL MID	Brinell Mid Radius		

104

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not

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304R.300  
 DATE: MAY 24 2018

PO / BATCH NO.: 039927/5074041

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 144  
 QUANTITY INSPECTED: 144  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .500  
 THICKNESS RECEIVED: .500  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N <input type="radio"/>	<i>Action A276</i>
CORRECT THICKNESS	Y <input checked="" type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N <input type="radio"/>	<i>Heat # 1712154</i>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE: <u>MAY 24 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR  
(NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION: ASTM A276

PART NUMBER: M304R(D:DDD)

DIA.

WHERE "D:DDD" = DIAMETER IN INCHES

EG. 0.75" ROUND BAR = M304R0.750

RELEASED  
*(CBZ/14)*

B	REFORMAT DWG. ADD SPECS (ZN D6-1). REF PAR 08-020A		C	C P 09.07.15
A	NEW ISSUE	REV.	AUS 08.03.03	BY DATE

DART AEROSPACE LTD		HAWKESBURY, ONTARIO, CANADA	REV. B	SHEET 1 OF 1
DESIGN	<i>AIS</i>	DRAWING NO. <i>M304R</i>		
DRAWN	<i>91</i>			
CHECKED				
MFG. APPR.				
APPROVED	<i>AD</i>	TITLE		SCALE
DE APPR.	<i>AD</i>	304/316 ROUND BAR		N/T
DATE	09.07.15	COPYRIGHT © 2008 BY DART AEROSPACE LTD. NO COPIES OR PARTS THEREOF MAY BE MADE, STORED, OR TRANSMITTED, IN WHOLE OR IN PART, WITHOUT THE EXPRESSED WRITTEN CONSENT OF DART AEROSPACE LTD.		

5730



RSS-12  
CHANDAN STEEL LIMITED  
(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2008 CERTIFICATE NO. 01100 011022

ADM. OFFICE: 604, SUKH SAGAR, N. S. PATKAR MARG, MUMBAI 400 007, INDIA.

Tel: 91-22-66290600. Fax: 91-22-66290633/34

Website : [www.chandasteel.net](http://www.chandasteel.net)Email : [csl@chandasteel.net](mailto:csl@chandasteel.net)

WORKS: PLOT NO. 31 TO 36, 45, 46, 48, &amp; 49/2, 142

(EXP. AREA) CIDC, UMBERGAON &amp; SURVEY NO. 102/2 &amp; 3, VILLAGE,

DEHARI, TALUKA: UMBERGAON, DIST: VALSAD, GUJARAT - 396171

GSTIN - 24AAAC0971B3ZG

I/c. No.:

I/c. Date:

F824 QC 09A / 02 / 10.12.2012

MILL TEST/INSPECTION CERTIFICATE 3.1  
ACCORDING TO EN 10204 : 2005

Consignee				Test Certificate No. : EXP/01152 - 08/2017-2018 Date of Issue : 03.01.2018 P. O. No. : MN5942 SC_No. & Date : 17-18/00447, Dt.08.11.2017 Invoice No. & Date : EXP/01152/2017-18 Dt.03.01.2018															
PRODUCT DESCRIPTION STAINLESS STEEL ROUND BARS				LENGTH		Net Wt.													
				Ordered		Actual		4680 Lbs.											
				12' - 14'		12' - 14'													
Heat No.	Grade AISI	Size mm/inches	Tolerance	Process Route															
1712154	304L	1/2"	h9	Electric Melting, A.O.D. Refining, Continuous Casting															
CHEMICAL COMPOSITION (Weight %)																			
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	N								
Min.	-	-	-	-	-	18.00	-	8.00	-	-	-								
Max.	0.030	1.00	2.00	0.045	0.030	20.00	-	12.00	-	-	-								
Results	0.028	0.33	1.56	0.038	0.008	18.02	-	8.02	-	-	-								
MECHANICAL PROPERTIES																			
Specified Value	Yield Strength N/mm <sup>2</sup> /MPa (Rp0.2)		Tensile Strength N/mm <sup>2</sup> /MPa (Rm)		Elongation %		Reduction of Area %		Hardness (HB)										
Min.	310		620		30		40		-										
Max.	-		-		-		-		-										
Results	534		737		38		65		229-232										
Remarks:																			
1. Cold drawn & Centreless Ground. 2. Solution annealed at 1050 °C. 3. PMI test done 100% & found Satisfactory. 4. Material is free from radio-active contamination. 5. Inter-Granular Corrosion Test as per ASTM A262 - 15 (Pr.E) satisfactory. 6. The material conforms to <del>ASTM A276-15/A182-15/A479-15</del> ASME SA479-13 Specifications. 7. Location of sample - Centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Round. 8. Marking details - Company Logo, Size, Grade & Heat No. 9. The material is manufactured/melt in Chandan Steel Mill and is of Indian Origin. 10. No welding/weld repairs was performed on this material.																			
BUNDLE NO.: 32, 33, 35 & 36																			

It is hereby certified that the above results are true and correct in every detail and are meeting the requirements of specification & purchase order.

Page 8 of 26

  
 B. S. RAUTELA  
 MANAGER - QUALITY ASSURANCE

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304/R.313  
 DATE: MAY 24 2018

PO / BATCH NO.: 039927/5074040

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 121  
 QUANTITY INSPECTED: 121  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .313  
 THICKNESS RECEIVED: .313  
 SHEET SIZE ORDERED: 111A  
 SHEET SIZE RECEIVED: 111A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	Astm A276
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	Heat # 1711046
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>9-89 MAY 24 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR  
(NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION: *ASTM A276*  
PART NUMBER: M304R D<sup>DD</sup>D DIA.

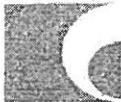
WHERE "D.DDD" = DIAMETER IN INCHES  
E.G. 0.75" ROUND BAR = M304R0.750

**RELEASED**  
*(CB 3/23/14)*

B	REFORMAT DWG. ADD SPECS (ZN D6-1). REF PAR 08-020A	C	09-07-15
A	NEW ISSUE	AJS	08-03-03
REV.	DESCRIPTION	BY	DATE
DESIGN	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA		
DRAWN	DRAWING NO. <i>91</i>		
CHECKED	REV. B		
MFG. APPR.	SHEET 1 OF 1		
APPROVED	SCALE		
DIE APPR.	NTS		
TITLE	<i>AD</i>		
DATE	304/316 ROUND BAR		
09-07-15	COPYRIGHT © 2008 BY DART AEROSPACE LTD No part of this document may be reproduced or communicated in any form or by any means without the written consent of Dart Aerospace Ltd.		

8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

5773



RSS-516  
CHANDAN STEEL LIMITED  
(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ADM. OFFICE: 504, SUJIJI SAGAR, N. S. PATKAR MARG, MID IRAN 496002, INDIA.

Tel: 91-22-66250600, Fax: 91-22-66290633/34

Website : [www.chandanssteel.net](http://www.chandanssteel.net)Email : [csl@chandanssteel.net](mailto:csl@chandanssteel.net)

ISO 9001 : 2008 CERTIFICATE NO. 04 100 011022

WORKS; PLOT NO. 31 TO 36, 45, 46, 48, &amp; 49/2, 142

(EXP. AREA) GIDC, UMBERGARHAN, &amp; SURVEY NO. 102/2 &amp; 3, VILLAGE,

DEHARI, TALUKA: UMBERGARHAN, DIST: VALSAD, GUJARAT - 396171

GSTIN - 24AAACCT4713B1ZG

50780

15622

I/c. No.:

F824 QC 09A / 02 / 10.12.2012

I/c. Date:

MILL TEST/INSPECTION CERTIFICATE 3.1  
ACCORDING TO EN 10204 : 2005

Consignee		Test Certificate No. : EXP/01209 - 02/2017-2018																				
Date of Issue : 24.01.2018																						
P. O. No. : BN5943																						
SC_No. & Date : 17-18/00448, Dt.18.11.2017																						
Invoice No. & Date : EXP/01209/2017-18 Dt.24.01.2018																						
PRODUCT DESCRIPTION		LENGTH	Net Wt.																			
STAINLESS STEEL ROUND BARS		Ordered	Actual																			
		12' - 14'	12' - 14'																			
		4065 Lbs.																				
Heat No.	Grade AISI	Size mm/inches	Tolerance																			
1711046	304L	5/16"	h9																			
CHEMICAL COMPOSITION (Weight %)																						
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	N											
Min.	-	-	-	-	-	18.00	-	8.00	-	-	-											
Max.	0.030	1.00	2.00	0.045	0.030	20.00	-	12.00	-	-	-											
Results	0.026	0.38	1.56	0.041	0.014	18.35	-	8.09	-	-	-											
MECHANICAL PROPERTIES																						
Specified Value	Yield Strength N/mm <sup>2</sup> /MPa (Rp0.2)		Tensile Strength N/mm <sup>2</sup> /MPa (Rm)		Elongation %		Reduction of Area %		Hardness (HB)													
Min.	310		620		30		40		-													
Max.	-		-		-		-		-													
Results	610		790		35		65		242-245													
Remarks:																						
1. Cold drawn & Centreless Ground.																						
2. Solution annealed at 1050 °C.																						
3. PMI test done 100% & found Satisfactory.																						
4. Material is free from radio-active contamination.																						
5. Inter-Granular Corrosion Test as per ASTM A262 - 15 (Pr.E) satisfactory.																						
6. The material conforms to ASTM A276-15/A182-15/A479-15 & ASME SA479-13 Specifications.																						
7. Location of sample - Centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Round.																						
8. Marking details - Company Logo, Size, Grade & Heat No.																						
9. The material is manufactured/melt in Chandan Steel Mill and is of Indian Origin.																						
10. No welding/weld repairs was performed on this material.																						
BUNDLE NO.: 2, 3 & 4																						



It is hereby certified that the above results are true and correct in every detail and are meeting the requirements of specification & purchase order.

Page 2 of 18

B. S. RAUTELA  
MANAGER - QUALITY ASSURANCE

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018R0.187  
 DATE: MAY 24 2018

PO / BATCH NO.: 039927/5074039

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 12'  
 QUANTITY INSPECTED: 12'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.187  
 THICKNESS RECEIVED: 0.187  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>Astar A108</i>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>Heat # A33093-5-5</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-89 MAY 24 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



5327

RCR-316

50219

14019

**INDWISCO LIMITED**  
**1-9010 KEELE ST**  
**CONCORD, ONTARIO**  
**CANADA L4K 2N2**

Order number: 67461-1  
 Account: 432  
 Printed: Jan 09, 2018  
 Page: 1

### Material Test Report

Billed to:	Ship to:	V
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#### Order Details

P.O.: B39410	Ordered: Dec 15, 2017	Due: Jan 12, 2018	Shipped: Dec 15, 2017
Taken by: JENNINE	Christine		

#### Items Ordered

Grade	Dia.	Format	Heat Number(s)	Description
C1018	0.1870	CUT LENGTHS	A33093-5.5	Material: C1018 Diameter: 0.1870 Tol: +/-0.0 Pieces: 1782 @ 144.0000 145
C1018	0.2500	CUT LENGTHS	A32988-7.0	Material: C1018 Diameter: 0.2500 Tol: +/-0.0 Pieces: 4984 @ 144.0000 444
C1018	0.3120	CUT LENGTHS	A32418-9.0	Material: C1018 Diameter: 0.3120 Tol: +/-0.0 Pieces: 1600 @ 144.0000 444

#### Chemical Analysis by Heat Number

Heat number	Carbon	Silicon	Manganese	Phosphorus	Sulphur	Copper	Nickel	Chromium	Molybdenum	Nitrogen	Aluminum
A32418-9.0	0.1700	0.2100	0.6500	0.0080	0.0170	0.2000	0.0700	0.0600	0.0200	0.0090	0.0020
A32988-7.0	0.1600	0.1900	0.7500	0.0090	0.0120	0.1400	0.0600	0.1100	0.0200	0.0070	0.0020
A33093-5.5	0.1600	0.2100	0.6600	0.0160	0.0130	0.2400	0.0700	0.1300	0.0200	0.0070	0.0020

#### Physical Properties

Grade	Finished Diameter	Heat Number	Rod Diameter	Tensile PSI	Yield PSI	Elongation %	Reduction of Area %	Brinell	Rockwell B
C1018	0.3120	A32418-9.0	0.3540						
C1018	0.2500	A32988-7.0	0.2760						
C1018	0.1870	A33093-5.5	0.2180						

#### Specifications

Grade	Specifications
C1018	Low carbon Steel ASTM: A29, A108, A510

I hereby certify that the above data is correct as contained in the records of INDWISCO LIMITED.

Date: Jan 9/18	Signature: <i>Jennine Sams</i>
----------------	--------------------------------

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B0.375x1.000  
 DATE: MAY 24 2018

PO / BATCH NO.: 088927/5074044

MATERIAL CERT REC'D: YES  
 QUANTITY RECEIVED: 40  
 QUANTITY INSPECTED: 40  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.375  
 THICKNESS RECEIVED: 0.375  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	ASTM B221
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	Heat # 3B6294
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>9-89 MAY 24 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: M6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:  
QQ-A-2258 OR AMS-QQ-A-2258 (OR AMS 4117/4128/4115/4116)  
OR QQ-A-2008 OR AMS-QQ-A-2008 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221

△

PART NUMBER:

M6061T6B	T.TTT	X	WW.WWW	WIDTH
	THICK			

WHERE "T.TTT" = THICKNESS IN INCHES  
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.00

QQ-A-2258 OR AMS-QQ-A-2258 (OR AMS 4117/4128/4115/4116)

OR QQ-A-2008 OR AMS-QQ-A-2008 (OR AMS 4160)

OR ASTM B211 OR ASTM B221

△

RELEASED  
R 2009-08-03  
*[Signature]*

B	REMOVE QQA-250/11 OPTION, REFORMAT NOTES, ADD	CP	09.07.13
A	ASTM B211(B221)(ZN D71)	DS	01.06.08
REV	NEW ISSUE	BY	DATE
	DESCRIPTION	DART AEROSPACE LTD	
DESIGN	DS	HAWKESBURY, ONTARIO, CANADA	
DRAWIN	JJS	DRAWING NO.	REV. B
CHECKED	JJS	M6061T6B	SHEET 1 OF 1
MFG. APPR.			SCALE
APPROVED			NTS
DE APPR.			
DATE	09.07.13	6061-T6 BAR	
		COPYRIGHT © 2001 BY DART AEROSPACE LTD	
		THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT MAY NOT BE COPIED OR DISSEMINATED TO ANY OTHER COMPANY OR PERSON UNLESS APPROVED IN WRITING BY DART AEROSPACE LTD.	

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2613  
CAN ART  
ALUMINUM EXTRUSION L.P.

FAL-381

50925 16132

## Material Test Report

Manifest: 326918

Ticket:  
5547054

Our Order: **437184 - 1**

Cust P.O.: **4500819317**

Die: **ES05691**

Part: **163000029**

Alloy Temper: **6061 T6511**

Description: **.375 x 1.000**

Print Date: **7/9/17**

CastNum	Chemical Composition								Maximum	OtherEach	OtherTotal
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti			
3B6294	0.61	0.19	0.23	0.04	0.85	0.06	0.01	0.02	0.05	0.15	

Mechanical Properties						
Strength ksi						
Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length
427350	3B6294	A11	7/7/17	46.28	40.04	14.4

Applicable Specifications: **ASTM B221-14**      **AMS-QQ-A200/8A**

Country of Origin: **ONTARIO, CANADA**

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Rahul Tiwari - Tensile Testing

Authorized:

Evan Eng, Quality Assurance Manager